

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P865644

Luminaire Tested: PRLX-2002-S-930-25L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-25L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

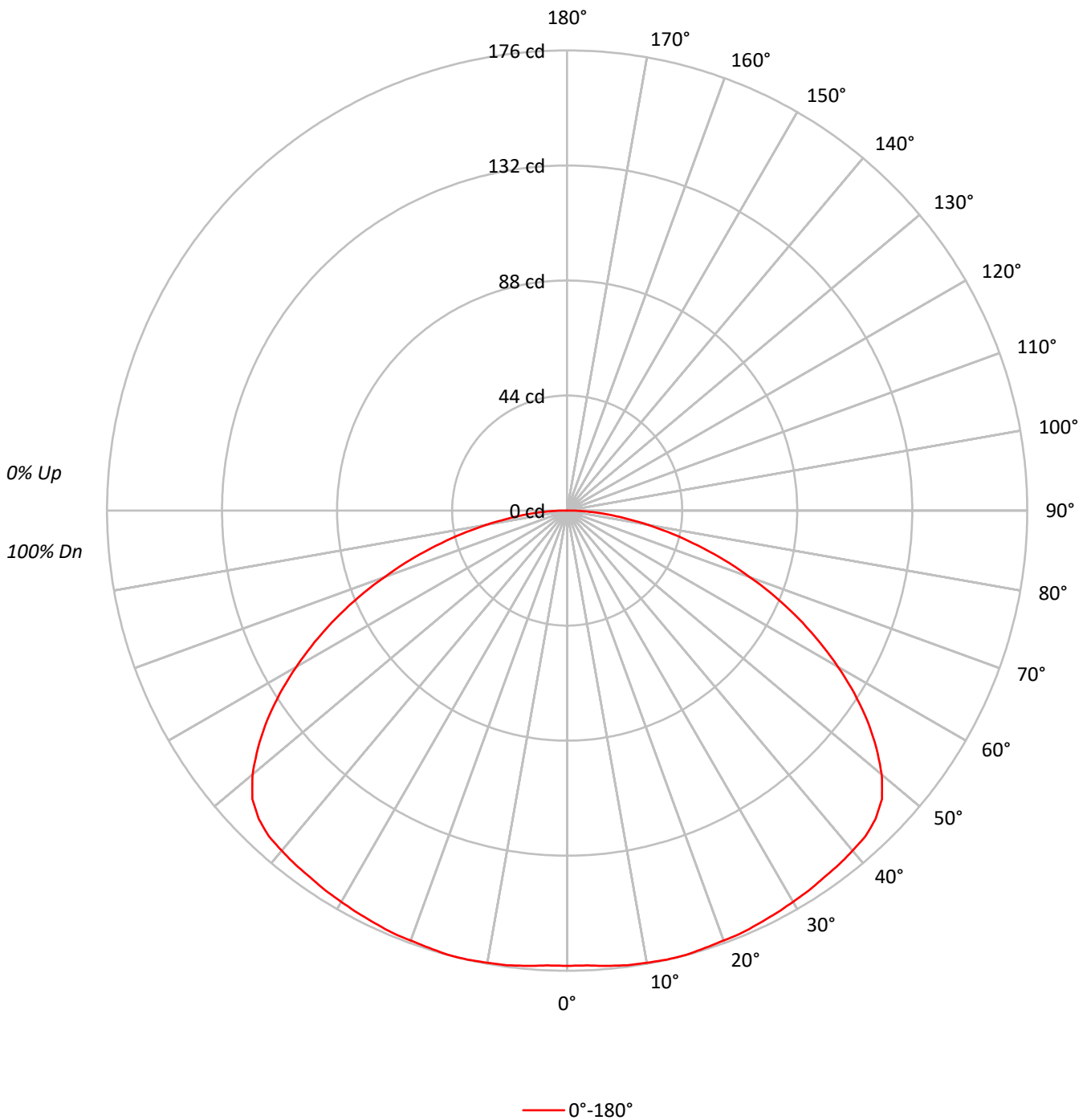
Lumens per Lamp: N/A
Luminaire Lumens: 675.2 lumens
Efficiency: N/A
Efficacy: 23.2 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37	49	42	36	47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3270
5°	3296
10°	3349
15°	3421
20°	3498
25°	3608
30°	3748
35°	3928
40°	4164
45°	4431
50°	4591
55°	4591
60°	4497
65°	4338
70°	4081
75°	3759
80°	3386
85°	3017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4601 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	2.5
10°-20°	49.8	7.4
20°-30°	80.5	11.9
30°-40°	107.6	15.9
40°-50°	128.1	19.0
50°-60°	124.8	18.5
60°-70°	96.4	14.3
70°-80°	55.1	8.2
80°-90°	16.0	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	147.0	21.8
0°-40°	254.6	37.7
0°-60°	507.6	75.2
0°-90°	675.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	174	
5°	175	17
15°	176	50
25°	174	81
35°	171	108
45°	167	128
55°	140	125
65°	98	96
75°	52	55
85°	14	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	174.1
2.5°	174.1
5°	174.8
7.5°	175.4
10°	175.6
12.5°	175.9
15°	175.9
17.5°	175.4
20°	175.0
22.5°	174.8
25°	174.1
27.5°	173.5
30°	172.8
32.5°	172.2
35°	171.3
37.5°	170.7
40°	169.8
42.5°	168.9
45°	166.8
47.5°	163.3
50°	157.1
52.5°	149.1
55°	140.2
57.5°	130.3
60°	119.7
62.5°	108.9
65°	97.6
67.5°	86.2
70°	74.3
72.5°	63.1
75°	51.8
77.5°	41.3
80°	31.3
82.5°	22.0
85°	14.0
87.5°	7.3
90°	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.86	19.59	18.23	19.90	20.22	17.86	19.59	18.23	19.90	20.22
	3H	19.69	21.26	20.07	21.59	21.95	19.69	21.26	20.07	21.59	21.95
	4H	20.37	21.85	20.76	22.19	22.57	20.37	21.85	20.76	22.19	22.57
	6H	20.86	22.24	21.27	22.60	22.99	20.86	22.24	21.27	22.60	22.99
	8H	21.03	22.34	21.45	22.73	23.13	21.03	22.34	21.45	22.73	23.13
	12H	21.14	22.41	21.57	22.79	23.22	21.14	22.41	21.57	22.79	23.22
4H	2H	18.52	20.00	18.92	20.35	20.72	18.52	20.00	18.92	20.35	20.72
	3H	20.57	21.82	20.98	22.21	22.61	20.57	21.82	20.98	22.21	22.61
	4H	21.37	22.50	21.80	22.91	23.35	21.37	22.50	21.80	22.91	23.35
	6H	22.00	22.99	22.45	23.43	23.88	22.00	22.99	22.45	23.43	23.88
	8H	22.21	23.14	22.67	23.58	24.04	22.21	23.14	22.67	23.58	24.04
	12H	22.37	23.21	22.85	23.69	24.15	22.37	23.21	22.85	23.69	24.15
8H	4H	21.69	22.62	22.15	23.06	23.53	21.69	22.62	22.15	23.06	23.53
	6H	22.44	23.22	22.93	23.71	24.18	22.44	23.22	22.93	23.71	24.18
	8H	22.73	23.43	23.23	23.93	24.42	22.73	23.43	23.23	23.93	24.42
	12H	22.97	23.59	23.48	24.08	24.64	22.97	23.59	23.48	24.08	24.64
12H	4H	21.73	22.57	22.21	23.05	23.51	21.73	22.57	22.21	23.05	23.51
	6H	22.51	23.21	23.01	23.71	24.19	22.51	23.21	23.01	23.71	24.19
	8H	22.85	23.47	23.36	23.96	24.52	22.85	23.47	23.36	23.96	24.52